Tuesday, May 24, 2022 9:11 PM

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```
public static int maxPathSum(Node root)
{
    //code here
    if(root == null){
        return 0;
    }
    int left = maxPathSum(root.left); // max from
    int right = maxPathSum(root.right); // max from
    int val = Math.max(left, right) + root.data;
    return val;
}
```

```
public static int maxPathSum(Node root)
{
    if(root.left != null && root.right != null){
        int left = maxPathSum(root.left);
        int right = maxPathSum(root.right);
        return Math.max(left, right) + root.data;
} else if(root.left != null){
        int left = maxPathSum(root.left);
        return left + root.data;
} else if(root.right != null){
        int right = maxPathSum(root.right);
        return right + root.data;
} else {
        // leaf
        return root.data;
}
```

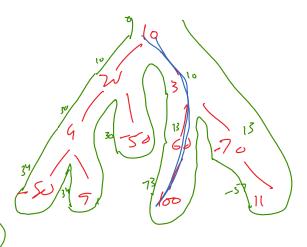
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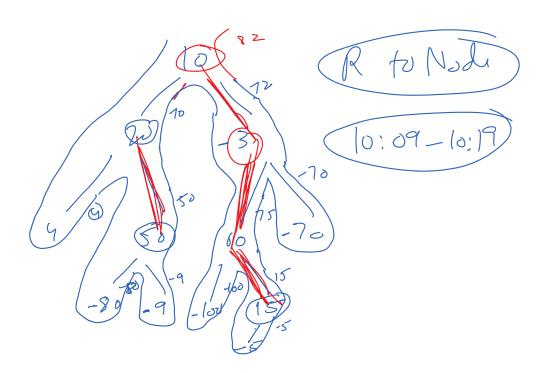
```
public static void travel(Node node, int sum){
   if(node == null){
      return;
}

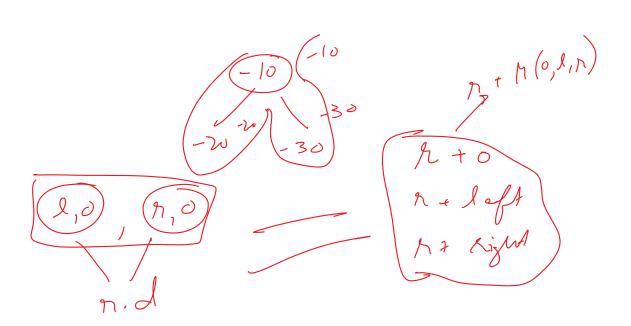
if(node.left == null && node.right == null){
   sum = sum + node.data;
   if(sum > max){
      max = sum;
   }
   return;
}

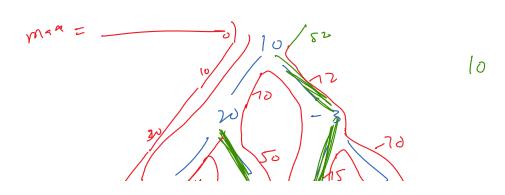
travel(node.left, sum + node.data);
travel(node.right, sum + node.data);
}
```

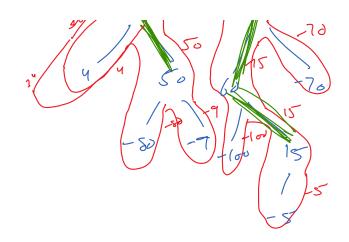
max = -a) = 54 45 (173)

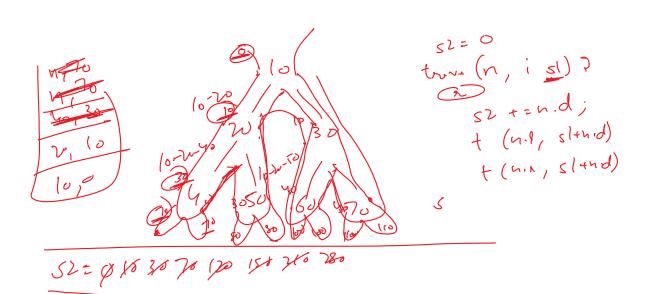


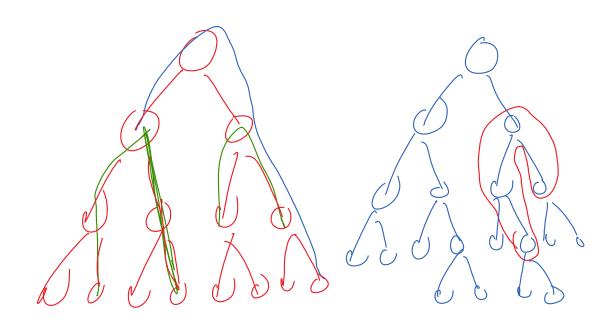


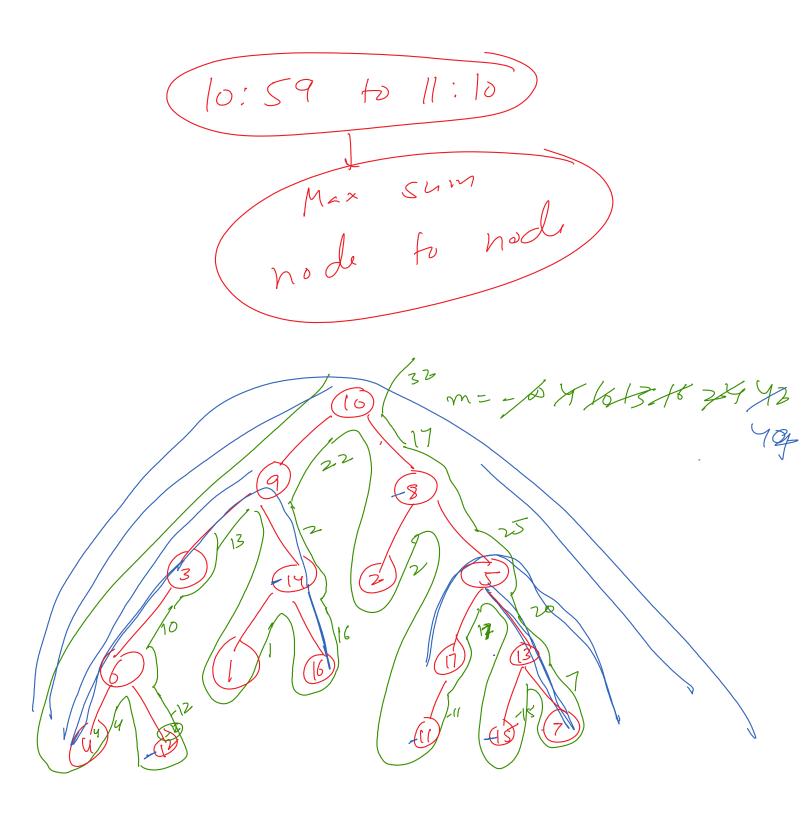








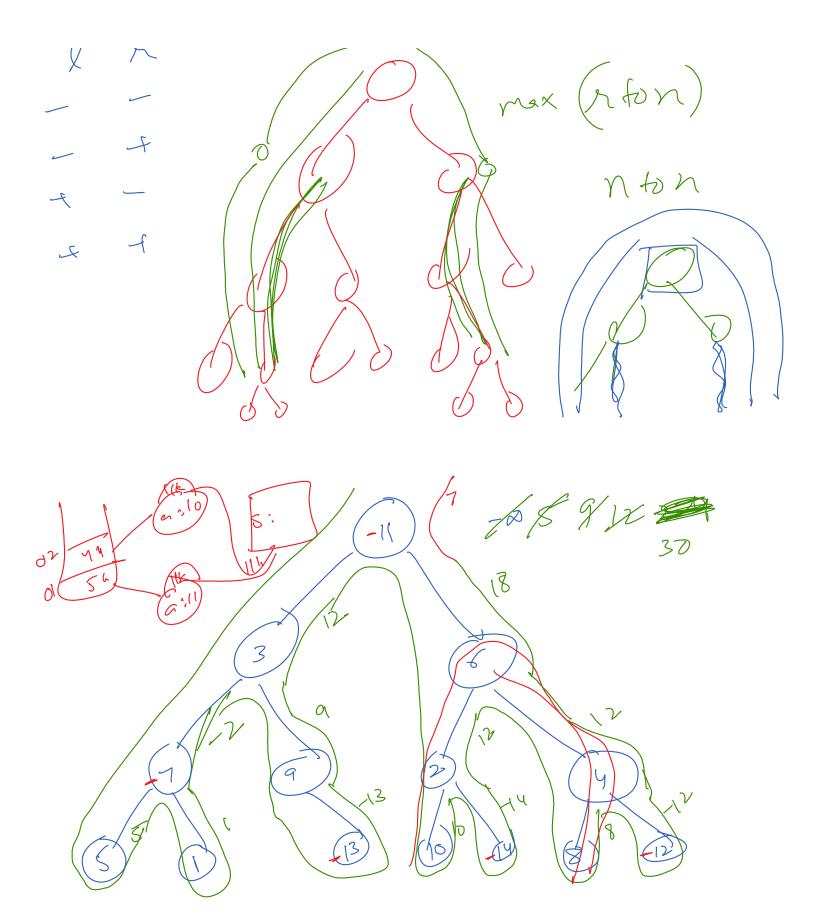


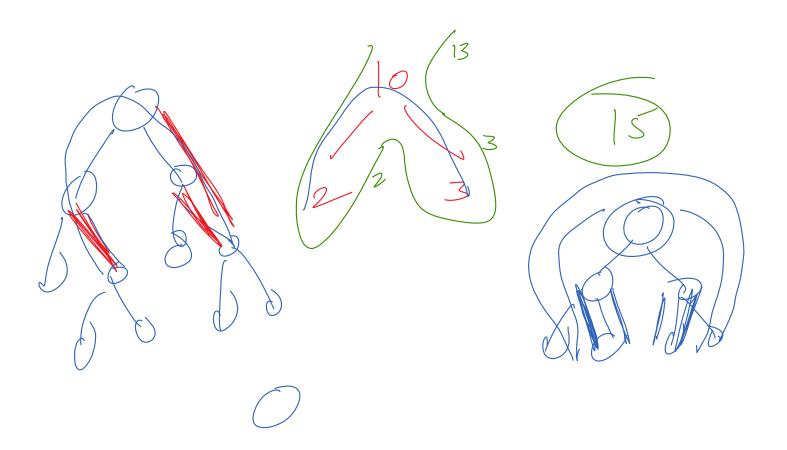


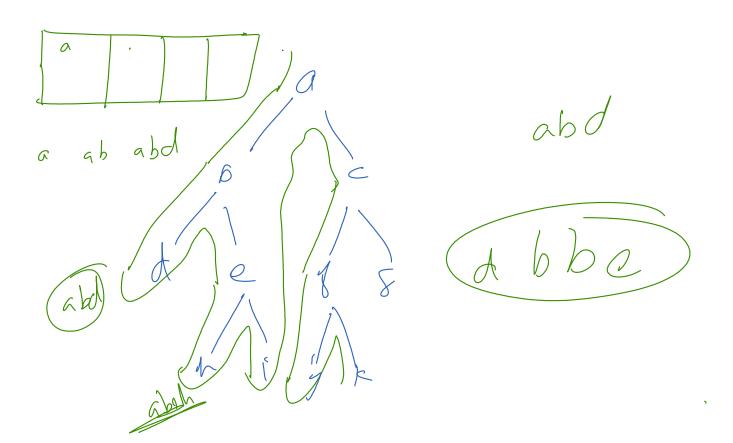
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